

Comparisons of Job Characteristics

Focus Occupation: [Maintenance Workers, Machinery \(49-9043\)](#)

Associated Occupation: [Industrial Machinery Mechanics \(49-9041\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Maintenance Workers, Machinery (49-9043)
Associated Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	20.1	21.8	0	Current knowledge level may be sufficient
Engineering and Technology	5.7	13.0	10.8	<	Expanded education and/or training may be required
Design	5.2	11.5	9.2	<	Expanded education and/or training may be required
Building and Construction	4.0	9.7	10.3	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Maintenance Workers, Machinery (49-9043)
Associated Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Repairing	3.4	15.6	11.8	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	14.6	11.9	<	A higher skill level may be required
Operation Monitoring	6.6	14.2	11.9	<	A higher skill level may be required
Troubleshooting	4.5	13.6	11.0	<	A higher skill level may be required
Quality Control Analysis	5.9	12.3	10.0	<	A higher skill level may be required
Operation and Control	5.4	11.6	10.6	0	Current skill level may be sufficient
Equipment Selection	3.3	9.8	8.5	<	A higher skill level may be required
Installation	1.7	6.4	4.3	<<	Extensive development of skills in this area may be required
Technology Design	2.6	5.2	3.7	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 84			
Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Industrial Machinery Mechanics (49-9041)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reaction Time	4.8	13.9	8.4	<<	Extensive improvement in abilities may be required
Control Precision	6.6	12.9	9.5	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	12.6	9.7	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	12.1	6.6	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	11.9	9.4	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	11.5	8.2	<<	Extensive improvement in abilities may be required
Auditory Attention	5.9	11.2	7.9	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	10.6	6.8	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	7.7	3.8	<<	Extensive improvement in abilities may be required
Wrist-Finger Speed	3.2	7.3	4.0	<<	Extensive improvement in abilities may be required
Sound Localization	2.2	6.5	4.0	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.2	3.2	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 89
Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Industrial Machinery Mechanics (49-9041)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Adjust or set mechanical controls or components	69	
Apply cleaning solvents	41	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Inspect machinery or equipment to determine adjustments or repairs needed	42	

Install equipment or attachments on machinery or related structures	48
Lubricate machinery, equipment, or parts	59
Maintain or repair industrial or related equipment/machinery	39
Maintain repair records	65
Move or fit heavy objects	8
Observe or listen to machinery or equipment operation to detect malfunctions	81
Operate crane in construction, manufacturing or repair setting	76
Operate hoist, winch, or hydraulic boom	34
Perform safety inspections in industrial, manufacturing or repair setting	32
Read specifications	23
Read work order, instructions, formulas, or processing charts	9
Repair or replace malfunctioning or worn mechanical components	62
Repair sheet metal products	87
Requisition stock, materials, supplies or equipment	54
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use control or regulating devices to adjust or maintain industrial machinery	89
Use hand or power tools	2
Use high voltage apparatus	76
Use knowledge of metric system	39
Use pneumatic tools	66
Use precision measuring devices in mechanical repair work	61
Use pressure gauges	76

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: Maintenance Workers, Machinery (49-9043)
Associated Occupation: Industrial Machinery Mechanics (49-9041)

Tools and Technologies	Exclusivity
Bandsaws and accessories	26
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Data management and query software	1
Dispensing tools	6
Face and head protection	7
Fastener setting tools	12
Forming tools	2
Holding and clamping tools	3

Industrial trucks	10
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Machinery for working wood and stone and ceramic and the like	12
Measuring and layout tools	3
Metal bending and forming machinery	17
Pneumatic tools	8
Power tools	2
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Tool attachments and accessories	12
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.